WHAT IS CLAIMED IS:

1.   A traffic generating apparatus in a block spreading code division multiple access mobile communication system, comprising:

5   a chip spreading unit for spreading a predetermined number of symbols using a spreading code; and

a symbol generating unit for generating forward guard symbols by repeatedly copying a first symbol of the spread symbols by a number of times, generating backward guard symbols by repeatedly copying a plurality of rear

10   symbols of the spread symbols in a mirror manner, starting from a last symbol of the spread symbols, by a number of times, and outputting the generated forward and backward guard symbols.

2.   The traffic generating apparatus as set forth in claim 1, wherein the symbol generating unit comprises:

15   a latch circuit for latching and outputting a first symbol input from the chip spreading unit during a predetermined period of time;

a delay circuit for delaying and outputting symbols input from the chip spreading unit by a period of time of output from the latch circuit;

a buffer for receiving and storing the predetermined number of symbols,

20   starting from a last symbol of the symbols input from the chip spreading unit, and outputting the stored symbols in a last in first out (LIFO) manner; and

a multiplexer for generating the first symbol output from the latch circuit as the forward guard symbol, outputting the output of the delay circuit, and outputting the symbols output from the buffer as the backward guard symbols.

3.   A method for generating traffic in a block spreading code division multiple access mobile communication system, the method comprising the steps of:

spreading a predetermined number of symbols using a spreading code;

5   generating and outputting forward guard symbols by repeatedly copying a first symbol of the spread symbols by a number of times;

outputting the spread symbols successively after the output of the forward guard symbols; and

generating backward guard symbols by repeatedly copying a plurality of
10   rear symbols of the spread symbols in a mirror manner, starting from a last symbol of the spread symbols, by a number of times, and outputting the generated backward guard symbols successively after the output of the spread symbols.

4.   A traffic receiving apparatus in a block spreading code division multiple access mobile communication system, comprising:

15   a maximum ratio combination detector for detecting receipt symbols through a maximum ratio combination of input symbols and symbols output from a decision unit; and

an adder for adding the input symbols and symbols output from a feedback filter,

20   wherein the decision unit determines outputs of the adder and inputs the determined outputs to the maximum ratio combination detector and the feedback filter; and

wherein the feedback filter filters outputs of the decision unit and outputs the filtered outputs to the adder.

5.   The traffic receiving apparatus as set forth in claim 4, further comprising:

a switch for selectively switching the outputs of the decision unit and outputs of the maximum ratio combination detector, and for inputting the switched outputs to the feedback filter.

6.   The traffic receiving apparatus as set forth in claim 5, wherein the switch is connected to the decision unit when an input symbol is the first symbol, and is connected to the maximum ratio combination detector for symbols after the first symbol.

7.   A method for receiving traffic in a block spreading code division multiple access mobile communication system, the method comprising the steps of:

detecting receipt symbols through a maximum ratio combination of first input symbols;

performing a decision for the first input symbols, feeding back the decided symbols, and repeatedly adding the feedback symbols with symbols input after the first input symbols; and

detecting receipt symbols through a maximum ratio combination of symbols after the first input symbols and the symbols added through the feedback.